Headquarters U.S. Air Force

Integrity - Service - Excellence

Air Force Logistics Modeling and Simulation

U.S. AIR FORCE

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AF/A4IS

Logistics Modeling & Simulation
Background

- **September 2007 Logistics Board of Advisors (LBOA) Conference**
  - **MAJCOM A4s agreed the logistics community needed to develop a way ahead for improving the use of M&S to support logistics processes and war-gaming**
- **Must establish roadmap and framework from which to acquire and manage M&S investments**
  - **Goals-Objectives-Capabilities-Actions**
- **Initial Tasks**
  - **Establish Logistics M&S IPT and Sub-IPT**
  - **Develop Charter**
  - **Draft Strategic Plan**
- **Long-term deliverables**
  - **Logistics M&S Tools Inventory**
  - **As-Is and To-Be process assessment and gap analysis**
  - **Implementation Plan**

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Accomplishments

- **Logistics M&S IPT Established (Aug 08)**
  - **Five business areas (sub-IPTs) (Sortie Generation & Sustainment, Exercise & Wargaming, Logistics Planning & Readiness, Design Development & Engineering, Training)**
  - **Sub-IPT leads identified (Sep 08)**
- **Three IPTs Conducted (Nov 08/Feb 09/Jul 09)**
- **Logistics Representation**
  - **Added to Acquisition IPT (Dec 08)**
  - **First logistics representation on Council of Colonels (CoC) (Jan 09)**
  - **Logistics representative added to LVC architecture development team (Jan 09)**

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Accomplishments

- **Logistics M&S Goals and Objectives Defined (Feb 09)**
- **Define Interdependencies/Touch Points (Feb 09)**
- **Assess Risks for Each Goal (Feb 09)**
- **IPT Charter signature (HAF A4/7 CIO) complete (May 09)**

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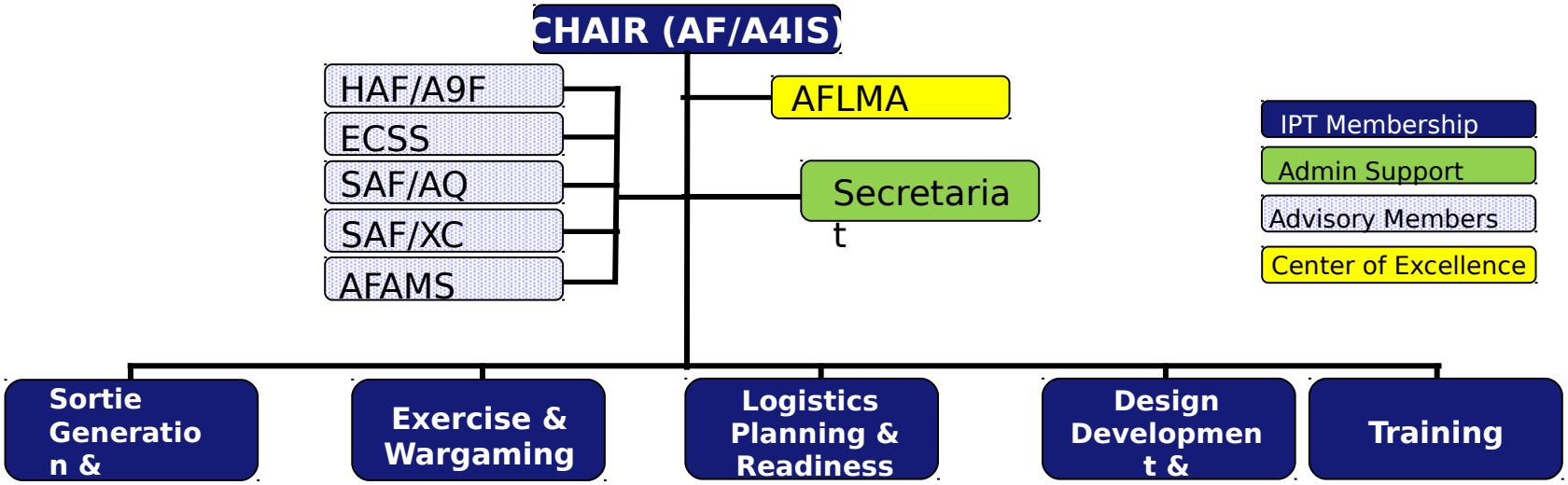
IPT Structure



Where it fits…

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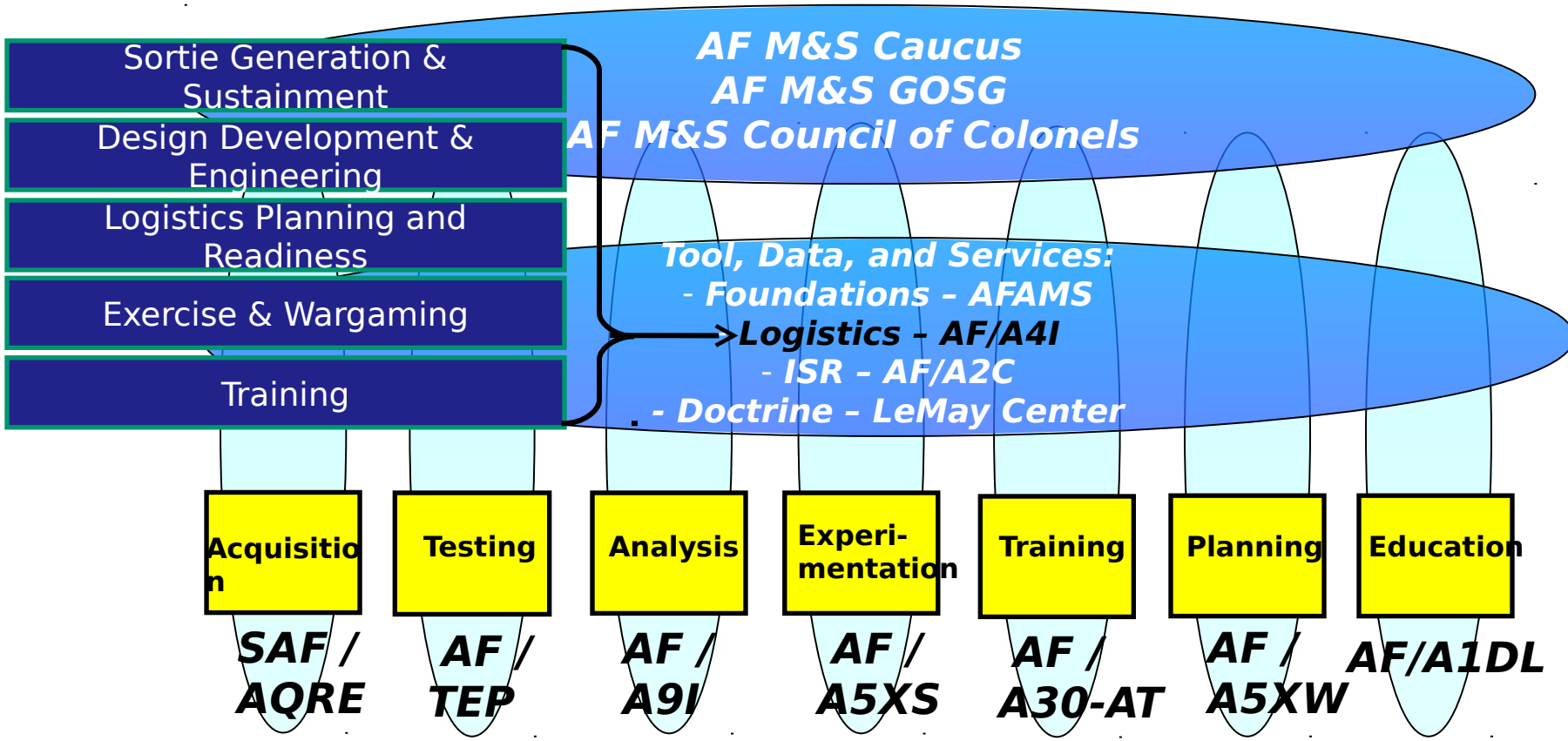
Cross-cutting Business Area

Integrating the USAF into the DoD M&S "Communities" Approach



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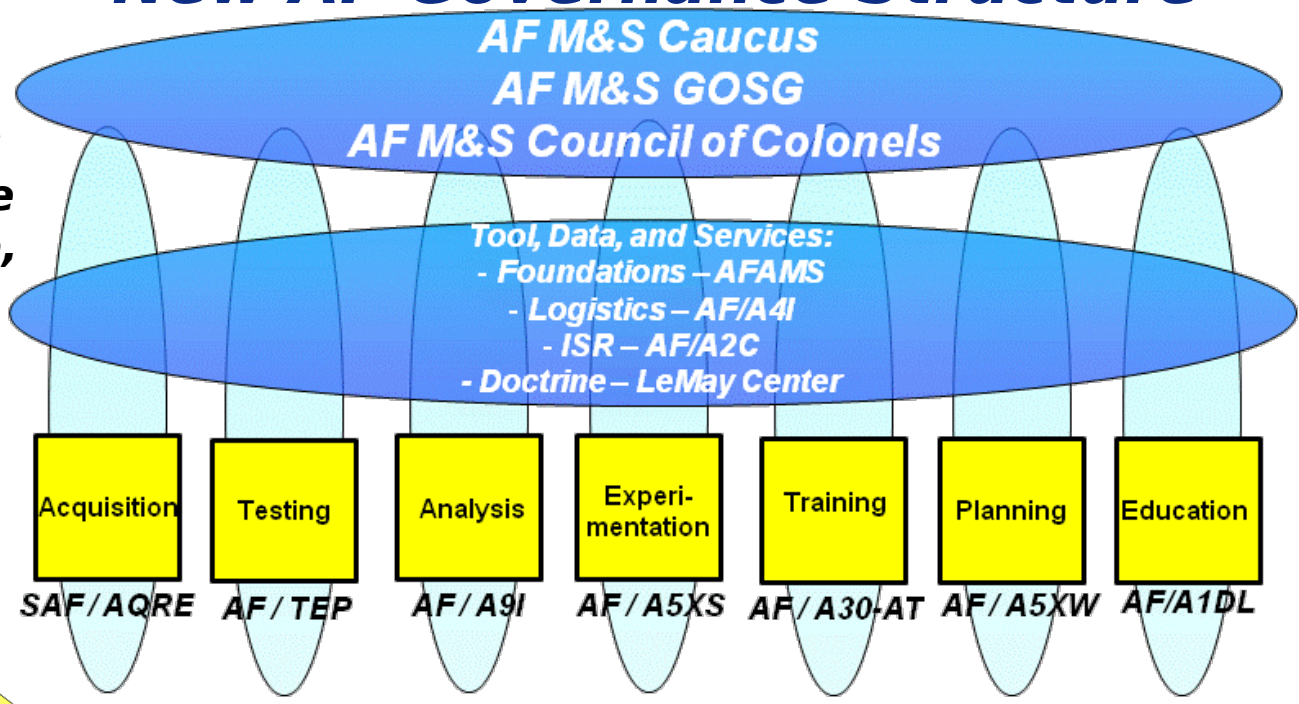
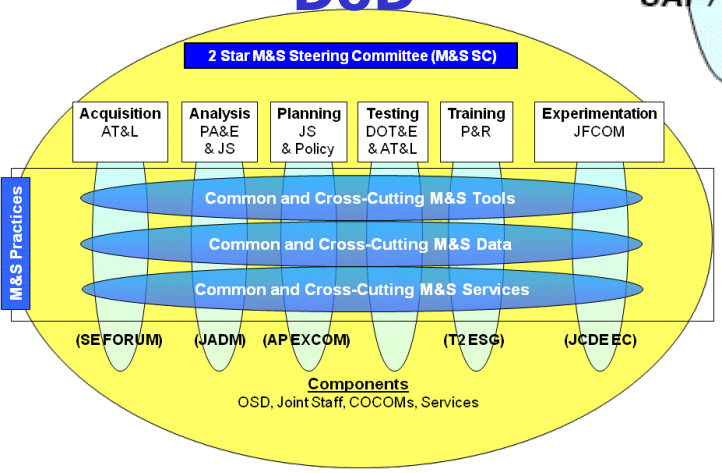
~~New AF Governance Structure~~

AIR FORCE VISION

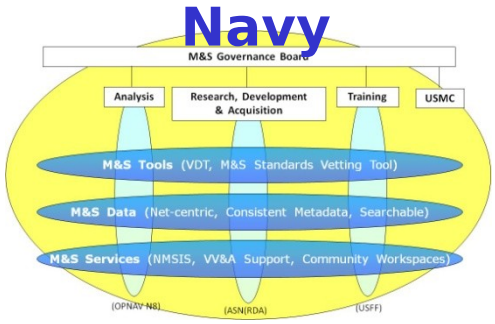
M&S capabilities enabling the United States Air Force to organize, train, educate, equip, and employ current and future air, space, and cyberspace forces for the full range of operations.



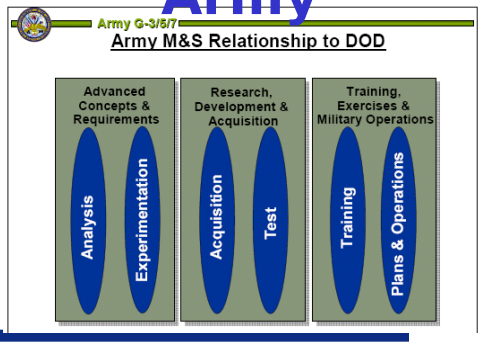
DoD



Navy



Army



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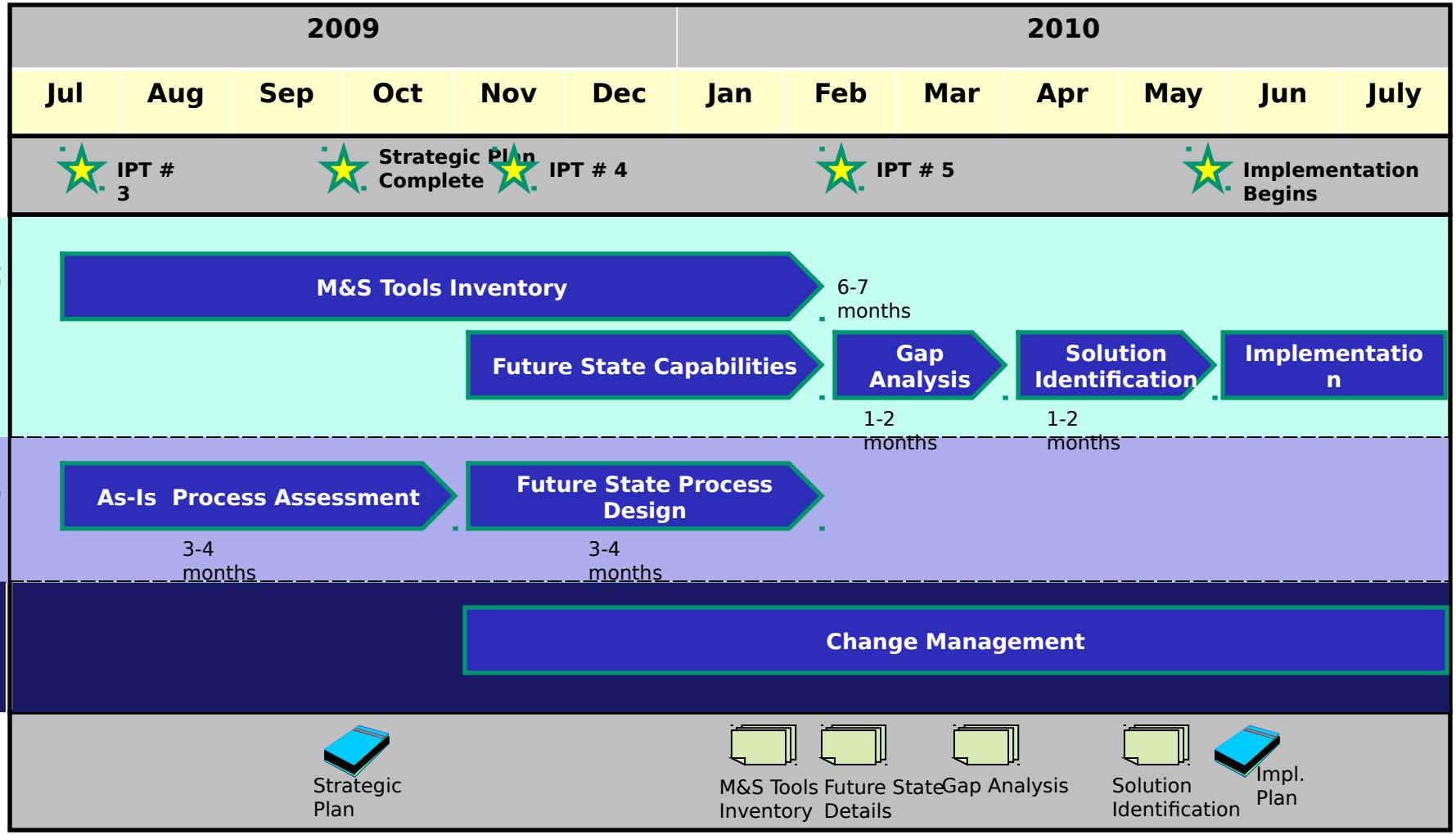
The Way Forward



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Key Upcoming Activities

- **Deliver Logistics M&S Strategic Plan for coordination (Sep 09)**
- **Begin Logistics M&S Tools inventory (Oct 09)**
- **Begin As-Is Process Assessment interviews (Oct 09)**

Logistics Modeling & Simulation
Team Members

- **Team Lead: Pete Tresnak**
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- **Team Members:**
  - **Major Todd Bean**
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  - **Sal Taslim**
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  - **Paul Blanchard**
    - **Email: pablanchard@deloitte.com**

Questions?

Backup Charts

Logistics Modeling & Simulation
Vision and Mission

VISION

- **Logistics modeling and simulation capabilities that enable the United States Air Force to organize, train, educate, equip, and employ current and future air, space, and cyberspace forces for the Joint Warfighter to fly, fight, and win across the full range of operations.**

MISSION

- **The mission of this IPT is to assess and monitor the logistics M&S environment, identify gaps in capabilities, leverage best practices, and recommend M&S continuous improvements to fulfill current and future requirements. This enables the standardization of enterprise-wide M&S capabilities, creating a prioritized roadmap for both warfighting and business systems, while leveraging DoD, Coalition, Interagency and Air Force M&S initiatives.**

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Goals and Objectives

- **Goal 1: Identify opportunities for logistics M&S to meet enterprise needs**
  - **Objective 1.1 – Identify the current capabilities of logistics M&S within the 5 sub-IPTs (Functional Area Analysis)**
  - **Objective 1.2 – Identify the capability deficiencies (Functional Needs Assessment)**
  - **Objective 1.3 – Identify the targeted capability (Functional Solutions Assessment)**
  - **Objective 1.4 – Identify best of breed solutions**
  - **Objective 1.5 – Complete the feedback loop with agency/organization that identified the deficiency**

- **Goal 2: Leverage logistics modeling and simulation capabilities to increase effectiveness and reduce cost**
  - **Objective 2.1 – Improved warfighting capability within the functional areas (5 sub-IPTs)**
  - **Objective 2.2 – Improved business management effectiveness within the functional areas (5 sub-IPTs)**
  - **Objective 2.3 – Prioritized M&S needs by functional area capability (e.g. 5 sub-IPTs) and by mission criticality**
  - **Objective 2.4 – Identify areas for re-use within the Air Force and /or Other Services**

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Goals and Objectives (cont)

- **Goal 3: Provide increased M&S expertise and understanding**
  - **Objective 3.1 – Educate Air Force personnel in logistics M&S capabilities**
  - **Objective 3.2 – Build M&S expertise within the logistics community**
  - **Objective 3.3 – Develop and maintain a continuous education program**

- **Goal 4: Provide persistent visibility into the logistics M&S landscape**
  - **Objective 4.1 – Establish business processes to support and facilitate maintaining persistent visibility of M&S data**
  - **Objective 4.2 – Establish and maintain a logistics M&S Community of Practice (COP)**
  - **Objective 4.3 – Update and maintain an authoritative database of the current M&S landscape**

- **Goal 5: Provide an enterprise-wide framework for the management of logistics M&S**
  - **Objective 5.1 – Conduct oversight, resource advocacy, and awareness of M&S contributions**
  - **Objective 5.2 – Establish simulation connectivity standards and foster re-use and interoperability to include database, software, graphics, and visualization**
  - **Objective 5.3 – Establish policy and guidance in coordination with AFAMS for updating and maintaining the data in an authoritative logistics M&S database**
  - **Objective 5.4 – Integrate logistics M&S into policy and guidance (e.g. Air Force Publications)**

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M&S Sub-IPT Leads

- **Chair – AF/A4IS, Ms. Theresa O'Brien; Co-chair – AF/A4IS, Mr. Pete Tresnak**
  - **Sortie Generation and Sustainment**
    - **Lead: HQ ACC - POC Lt Col Laurie Conrad**
    - **Co-Lead: HQ AMC – POC Mr. Michael Anthony/Mr. Anthony Naddeo**
  - **Exercise & Wargaming**
    - **Lead: HAF/A4/7Z - POC Mr. Laine Krat**
    - **Co-Lead: AFLMA - POC Capt Jason Wolff**
  - **Logistics Planning and Readiness**
    - **Lead: HAF/A4L - POC Major Robert Pata & MSgt Dave Johnson**
  - **Design Development & Engineering**
    - **Lead: HAF/A4ID - POC Mr. Ryan Josephson**
  - **Training**
    - **Lead: HAF/A4L - POC Ms. Marion Slaughter**

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AF M&S Functional Community Leads

- Acquisition – SAF/AQRE – Mr. Clarence Gooden
- Testing – AF/TEP – Ms. Melody Johnson
- Analysis – AF/A9I – Mr. Balf Callaway (Dr Mary Cerniglia-Mosher, attending for Mr. Callaway)
- Experimentation – AF/A5XS – Col Robert Evans
- Training – AF/A3O-AT – Col William B. Pilcher
- Education – AF/A1 – Col John W. Thompson (AETC/A8Q)
- Planning – AF/A5XW – Col John R. Reid
- Logistics – AF/A4 – Col Donna Moerschell
- ISR – AF/A2 – Mr. Joseph Herrmann (AF ISR Agency)
- Foundations – AFAMS – Dr. Ed Degnan